

11. (Amended) An apparatus as claimed in [any one of claims] claim 1 [to 10] wherein said partially-reflective means has substantially the same reflection coefficient at each said successive position.

12. (Amended) An apparatus as claimed in [any one of claims] claim 1 [to 11] wherein said source of electromagnetic radiation is a pulsed source.

13. (Amended) An apparatus as claimed in [any one of claims] claim 1 [to 12] wherein said source of electromagnetic radiation is a monochromatic source.

14. (Amended) An apparatus as claimed in [any one of claims] claim 1 [to 12] wherein said source of electromagnetic radiation is a wideband source.

15. (Amended) An apparatus as claimed in [any one of claims] claim 1 [to 12] wherein said source simultaneously produces electromagnetic radiation at a number of discrete wavelengths.

16. (Amended) An apparatus as claimed in [any one of claims] claim 1 [to 15] wherein said source of electromagnetic radiation produces electromagnetic radiation in the wavelength range from 2 nm to 10mm.

17. (Amended) An apparatus as claimed in [any one of claims] claim 8 [to 10] wherein said source is external to said chamber.

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18. (Amended) An apparatus as claimed in [any one of claims] claim 8 [to 10] wherein said source is internal to said chamber.

19. (Amended) An apparatus as claimed in [any one of claims] claim 8 [to 10] wherein said source forms part of the chamber wall.

23. (Cancelled)

24. (Cancelled)

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